
Chapter 6: Link error messages

This chapter describes error messages that you might see when using link maintenance commands or when using diagnostic tools such as the continuity test and loopback test. If you see an error message that is not described in this guide, contact your Nortel support personnel for assistance.

Link maintenance commands fail

Link maintenance commands can fail for either syntax or functional reasons. Syntax errors include the omission of required parameters in the command line, and unrecognized commands. Examples of invalid commands and their responses include

```
mlusr> display link
      Link Number Missing

mlusr> read linkctl
      File Name Needed

mlusr> get
      Incomplete Command

mlusr> change
      Incomplete Command

mlusr> change link
      Link Number Missing

mlusr> trace
      Incomplete Command
```

These errors are corrected by full specification of the command option. Refer to Chapter 3, “Link maintenance commands” or use the online help facility (for example, help trace) for more information on each command.

A second class of errors occurs due to error conditions existing within the Meridian Link software. The first of these errors occurs when mlusr is unable to register with the Meridian Link software. If the registration message times out, the following message is displayed:

```
AM Base software not responding: mlusr/admin
unable to register. Is Meridian Link/AM Base
```

software installed and running? Reboot the system to recover.

To correct this error, restart the Meridian Link software by rebooting the Application Module or IPE Module.

Meridian Link software errors are a result of an mlusr request that cannot be properly processed. A message indicates the error condition and a description is printed on the mlusr screen. Error messages are displayed in the following format:

Error <Error Number>: <Error Description>

For example:

Error 0x0906: Link already enabled

See “mlusr error messages” for the action to be taken in response. (The 0x, which indicates hexadecimal, is not listed with the error messages in this guide.)

The following message appears if the X.25 communications software has crashed and the links are being reconfigured:

<date and time> Meridian Link Panic: Link failure - reconfigure links

This might happen when the Application Module or IPE Module is experiencing heavy message traffic while other activities (trace running, monitoring, and so on) are running. Avoid unnecessary activity on the Application Module or IPE Module during high message traffic periods.

mlusr error messages

The following summary of the error messages reported by application software to the system console covers the error messages in Application Registration, DN Registration, Link Maintenance, and Message Facility.

N 0x may appear in the error message, and indicates hexadecimal.
t is not listed with the error messages in this guide.
e
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An explanation is provided for each error message; a solution is suggested on how to correct the error. The following message may appear in the Link Status Response Message:

000A - Link to SL1 down pending security validation

Whenever the link to the Meridian 1 is established, checks are made to verify that package 209 is installed and that the machine ID and the tape ID match. This message indicates these checks are under way. If the checks are successful, the link will establish normally.

The following values may appear in the Application Registration Response message.

000B - Request already in progress

A user has attempted to invoke an mlusr command (such as continuity test) that has already been invoked.

0502 - Association Table is full

Indicates the limit for the number of applications that can register has been reached. This state can be remedied either by restarting the application by rebooting the module or by releasing one or more associations.

0902 - Link process does not exist

Meridian Link software MLINK or HLINK processes cannot be invoked. To rectify this problem, shut down and restart the application (including the Meridian Link software).

0903 - Link ID Already Exists

To rectify this problem, reboot the module.

0904 - Meridian 1 or host machine name already exists

mlusr attempted to configure a link with an existing name. Use a different name.

0905 - Bad Link ID

The link ID is out of range. An invalid (unconfigured) link number was specified in a link command (enable, disable). Use get links to get a list of valid links.

If the application software is not functioning correctly, shut down the application (including the Meridian Link software) and restart it.

0906 - Link Already Enabled

mlusr attempted to enable an already enabled link. No action is necessary.

0907 - Link Already Disabled

mlusr attempted to disable an already disabled link. No action is necessary.

0908 - Error in opening a trace file

The trace file cannot be opened. Use the diskuse command to check the amount of memory space available or try another name.

0909 - Link Configuration Fail

Meridian Link Module can't configure link 0 (AML), link 1 (host link), or link 2 (Meridian Mail link).

There are a number of possible reasons for this error. First, the X.25 software may not be installed on the Meridian Link Module or it may not be installed correctly. Second, the Meridian Link software may not be installed correctly. Third, the MVME333-2 XCC card may be bad.

Reboot the Meridian Link Module and invoke the Meridian Link software. If the problem persists, try to reinstall the X.25 and Meridian Link software and restart the Meridian Link software. If the problem still persists, replace the MVME333-2 XCC card.

090A - Enable link command failed

Application Module cannot enable link 0 (AML) or link 1 (host link).

There are a number of possible reasons for this error. First, the X.25 software may not be installed on the Meridian Link Module or the X.25 software may not be installed correctly. Second, the Meridian Link software may not be installed correctly. Third, the MVME333-2 XCC card may be bad.

Reboot the Meridian Link Module and invoke the Meridian Link software. If the problem persists, try to reinstall the X.25 and Meridian Link software and restart the Meridian Link software. If the problem still persists, replace the MVME333-2 XCC card.

090B - Disable link command failed

Application Module cannot disable link 0 (AML) or link 1 (host link).

There are a number of possible reasons for this error. First, the X.25 software may not be installed on the Meridian Link Module or the X.25 software may not be installed correctly. Second, the Meridian Link software may not be installed correctly. Third, MVME333-2 XCC card may be bad.

Reboot the Meridian Link Module; and invoke the Meridian Link software. If the problem persists, try to reinstall the X.25 and Meridian Link software and restart the Meridian Link software. If the problem still persists, replace the MVME333-2 XCC card.

090C - Link command not supported

A link command used is not supported. Refer to Chapter 3, "Link maintenance commands" for valid commands.

090D - Link statistics request failed

The statistics command for a link only operates if the link is up. Ensure that the link is up before entering a statistics request.

090E - Configuration data overflow

The configuration data file is too large. Restart the Meridian Link software.

090F - Link command failed due to reconfiguration of associated link

Link 0 (AML) and link 1 (host link) use the two ports on the same MVME705B transition card and MVME333-2 XCC card. If link 0 is being configured, any mlusr command for link 1 will be rejected. If link 1 is being configured, any mlusr command for link 0 will be rejected.

To resolve this, wait for the Configuration Response message to appear before entering another (link) command.

0910 - Trace already enabled

Trace is already enabled, and an attempt is made again to turn on the trace. No action is necessary.

0911 - Trace already disabled

Trace is already disabled, and an attempt is made again to turn off the trace. No action is necessary.

0912 - Link to Meridian 1 failed because required software option not equipped

In order to use Meridian Link software, the Meridian 1 must be equipped with package 209. Use LD22 on the Meridian 1 system terminal to verify that package 209 is equipped.

0913 - Link to Meridian 1 failed due to Meridian 1 ID mismatch

In order to use Meridian Link software, the Meridian 1 ID must match the ID of the Meridian Link software. Use LD22 to verify that package 209 is present. Log in as maint and use the showid command to check the ID on the Meridian Link Module. Check the Meridian 1 ID printed on the Meridian Link software label against the connected switch.

0914 - No link responding

No response message is received from mlink or hlink. To rectify this problem, shut down and restart the application (including the Meridian Link software).

The following values may appear in any of the Message Facility (Recording, Monitoring, Statistics, Filtering) messages.

0B02 - Facility already enabled

Facility is already enabled and an attempt is made to turn on the same message facility. No action is necessary.

0B03 - Facility already disabled

Facility is already disabled, and an attempt is made to turn off the same message facility. No action is necessary.

0B04 - Message(s) already set

A message is already set, and an attempt is made to set the same message. No action is necessary.

0B05 - Message(s) already cleared

A message is already cleared, and an attempt is made to clear the same message. No action is necessary.

0B06 - Unable to open/write/close recording file

Unable to open/write/close a recording file in /usr/mlusr/rec directory. Make sure that mlusr has both read and write access to /usr/mlusr/rec.

0B07 - Invalid message type specified in MLUSR command

Verify that the message type specified is a valid Meridian Link message. Use help 'msgtype', help 'message', or help 'command' to display valid messages.

0B08 - Cannot clear all message set (filter, monitor or record)

To rectify this problem, shut down and restart the application (including the Meridian Link application).

Diagnostic tools error messages

This is a summary of error messages reported when using the following diagnostic tools: continuity test, traffic reports, and loopback test.

No more input is allowed

Certain diagnostic tests are in progress. No other input is allowed until the tests are completed. Wait for the “mlusr>” prompt before entering other commands.

File <filename> cannot be opened for writing

The traffic report cannot be written to <filename>. Use the diskuse command to check amount of space available or try another name.

Message from tsmain: Printer is not connected

The user directed the traffic report to a printer that is not connected. Check printer connections.

Loopback Test Failed: Cannot configure any link

Loopback test cannot configure link 0 or 1. Use the fileverif Application Module command to check the loopback configuration files in directory /usr/mlusr/conf or refer to Error 0909—Link Configuration Fail.

Loopback Test Failed: Cannot enable any link

Loopback test cannot enable link 0 or 1. Either use the fileverif Application Module command to check the loopback configuration files in directory /usr/mlusr/conf, or refer to Error 090A—Enable link command failed.

Loopback Test Failed: Link doesn't come up

Loopback test has tried four DTE and DCE combination tests, and the link does not come up.

1. Ensure that the proper cable is used and that the cable is wired correctly. Try a different cable.
2. Run maint> fileverif to ensure that the correct application files are present and that they are the proper size.

3. Check the MVME705 and MVME333 cards.
 - Run SSID on the MVME333 card.
 - Check jumper settings on both cards.
4. Try swapping cards.

Loopback Test Failed: No response message from mlink or hlink

The links are up, but the Meridian Link Module does not get a loopback test response message back from the links.

1. Ensure that the proper cable is used and that the cable is wired correctly. Try a different cable.
2. Run `maint> fileverif` to ensure that the correct application files are present and that they are the proper size.
3. Check the MVME705 and MVME333 cards.
 - Run SSID on the MVME333 card.
 - Check jumper settings on both cards.
4. Try swapping cards.

Loopback Test Terminated: User not ready

During loopback test, the user typed **no** at the “Ready” prompt.

Run loopback test again, plug in the correct cable and type **yes** at the “Ready” prompt.

Loopback Test Terminated: Cannot allocate memory for link_objects_bak

The loopback test cannot allocate memory to save the existing link configurations.

Stale association

Associations that terminate before releasing their registered association are considered stale. Because the Meridian Link Module allows a maximum of five registered associations, stale associations should be removed. Stale associations can be removed if the failed application recovers to the point of being able to release itself, or if the module is rebooted.

Removing a stale mlusr association

If a dial-up mlusr session disconnects before normal termination, a stale mlusr association will be left registered. A stale mlusr association can be removed (without Meridian Link Module restart) only if the application ID for that association is known.

If the Association Table is not full, a stale mlusr association can be released only in the following manner:

Console login: **mlusr**

Password:

Application registration successful: id = 2

mlusr> **get associations**

Association ID:	1
Application ID	ADMIN.1334
Host Link ID:	NONE
Meridian 1 Link ID:	NONE
Meridian Customer Number:	NONE
Meridian Mail Link ID:	NONE
Registered Services:	1
Association ID:	2
Application ID	API_TOOL
Host Link ID:	1
Host Name:	X25dest (or Lanlink)
Meridian 1 Link ID:	0
Meridian 1 Name:	SL16
Meridian 1 Customer Number:	1
Meridian Mail Link ID:	2
Meridian Mail Name:	Meridian Mail
Registered Services:	97 98 100 101

The current mlusr association is #2, API_TOOL. Assuming no other user is logged in as mlusr, association #1, ADMIN.1334, is stale. To remove it

1. Quit the current session and enter

mlusr> **quit**

Application release successful
BYE-BYE

2. Log in as **disttech**. From the “disttech>” prompt execute the following command:

`/usr/mlusr/bin/rm_assoc -a 'association_ID'`

For this example:

disttech> `/usr/mlusr/bin/rm_assoc -a 1`

The following message sequence will take approximately 20 seconds to cycle through:

Application registration failed
Error 0x0504: Application exists
disttech>
Application Release Response not received.

Application registration successful: id = 1
disttech>

3. Log in as mlusr. Execution of the get associations command shows the previously stale association has been restored.

The association is no longer stale and can be terminated normally by using the quit command.